

SEQUENCE LISTING

<110> Vogels, Ronald

Havenga, Menzo

Bout, Abraham

<120> Gene delivery vectors provided with a tissue tropism for
smooth muscle cells, and/or endothelial cells

<130> 2183-4231US

<140> US 09/444,284

<141> 1999-11-19

<150> EP 98203921.6

<151> 1998-11-20

<160> 24

<170> PatentIn version 3.0

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<210> 8

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<223> Description of Artificial Sequence: primer

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<210> 13

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<223> Description of Artificial Sequence: primer

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<211> 42

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<223> Description of Artificial Sequence: primer NY-UP

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<211> 19

<212> DNA

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<221> misc_feature

<223> Description of Artificial Sequence: primer NY-DOWN

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<210> 16

<211> 1746

<212> DNA

<213> Adenoviridae

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<223> /note="Ad5 chimeric fiber"

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<212> DNA
<213> Adenoviridae
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<223> /note="Ad5/fib12 chimeric fiber"

<220>
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<222> (1722)..(1722)
<223> n can be any nucleotide

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<210> 18

<211> 1071

<212> DNA

<213> Adenoviridae

<220>

<221> misc_feature

<223> /note="Ad5/fib16 chimeric fiber"

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<210> 19
<211> 1101
<212> DNA
<213> Adenoviridae
<220>
<221> misc_feature
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<210> 20

<211> 1668

<212> DNA

<213> Adenoviridae

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<223> /note="Ad5/fib40-L chimeric fiber"

<220>

<221> misc_feature

<222> (1588)..(1588)

<223> n can be any nucleotide

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<210> 21

<211> 1062

<212> DNA

<213> Adenoviridae

<220>

<221> misc_feature

<223> /note="Adenovirus16 fiber sequence"

<400> 21

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<210> 22

<211> 1074

<212> DNA

<213> Adenoviridae

<220>

<221> misc_feature

<223> /note="Adenovirus5/chimeric fiber16 sequence"

<400> 22

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<210> 23

<211> 353

<212> PRT

<213> Adenoviridae

<220>

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<223> /note="Adenovirus16 fiber protein sequence"

<400> 23

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Val	Gly	Ser	Ser	Leu	Thr	Val	Asp	Thr	Ile	Asp	Gly	Ser	Leu	Glu	Glu	65	70	75	80
Asn	Ile	Thr	Ala	Ala	Ala	Pro	Leu	Thr	Lys	Thr	Asn	His	Ser	Ile	Gly	85	90	95	

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 115 120 125
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 145 150 155 160
 Asn Thr Leu Trp Thr Gly Ala Lys Pro Ser Ala Asn Cys Val Ile Lys
 165 170 175
 Glu Gly Glu Asp Ser Pro Asp Cys Lys Leu Thr Leu Val Leu Val Lys
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 Asn Gly Gly Leu Ile Asn Gly Tyr Ile Thr Leu Met Gly Ala Ser Glu
 195 200 205
 Tyr Thr Asn Thr Leu Phe Lys Asn Asn Gln Val Thr Ile Asp Val Asn
 210 215 220
 Leu Ala Phe Asp Asn Thr Gly Gln Ile Ile Thr Tyr Leu Ser Ser Leu
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 Lys Ser Asn Leu Asn Phe Lys Asp Asn Gln Asn Met Ala Thr Gly Thr
 245 250 255
 Ile Thr Ser Ala Lys Gly Phe Met Pro Ser Thr Thr Ala Tyr Pro Phe
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 Ile Thr Tyr Ala Thr Glu Thr Leu Asn Glu Asp Tyr Ile Tyr Gly Glu
 275 280 285
 Cys Tyr Tyr Lys Ser Thr Asn Gly Thr Leu Phe Pro Leu Lys Val Thr
 290 295 300
 Val Thr Leu Asn Arg Arg Met Leu Ala Ser Gly Met Ala Tyr Ala Met
 305 310 315 320
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Ile Ser Ser Asn Gly Phe Ala Gln Ser Pro Asp Gly Val Leu Thr Leu
35 40 45

Lys Cys Val Asn Pro Leu Thr Thr Ala Ser Gly Pro Leu Gln Leu Lys
50 55 60

Val Gly Ser Ser Leu Thr Val Asp Thr Ile Asp Gly Ser Leu Glu Glu
65 70 75 80

Asn Ile Thr Ala Glu Ala Pro Leu Thr Lys Thr Asn His Ser Ile Gly
85 90 95

Leu Leu Ile Gly Ser Gly Leu Gln Thr Lys Asp Asp Lys Leu Cys Leu
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 Ser Leu Gly Asp Gly Leu Val Thr Lys Asp Asp Lys Leu Cys Leu Ser
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 Leu Gly Asp Gly Leu Ile Thr Lys Asn Asp Val Leu Cys Ala Lys Leu
 130 135 140
 Gly His Gly Leu Val Phe Asp Ser Ser Asn Ala Ile Thr Ile Glu Asn
 145 150 155 160
 Asn Thr Leu Trp Thr Gly Ala Lys Pro Ser Ala Asn Cys Val Ile Lys
 165 170 175
 Glu Gly Glu Asp Ser Pro Asp Cys Lys Leu Thr Leu Val Leu Val Lys
 180 185 190
 Asn Gly Gly Leu Ile Asn Gly Tyr Ile Thr Leu Met Gly Ala Ser Glu
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 Tyr Thr Asn Thr Leu Phe Lys Asn Asn Gln Val Thr Ile Asp Val Asn
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 Leu Ala Phe Asp Asn Thr Gly Gln Ile Ile Thr Tyr Leu Ser Ser Leu
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 Lys Ser Asn Leu Asn Phe Lys Asp Asn Gln Asn Met Ala Thr Gly Thr
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 Ile Thr Ser Ala Lys Gly Phe Met Pro Ser Thr Thr Ala Tyr Pro Phe
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 Ile Thr Tyr Ala Thr Glu Thr Leu Asn Glu Asp Tyr Ile Tyr Gly Glu
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 Cys Tyr Tyr Lys Ser Thr Asn Gly Thr Leu Phe Pro Leu Lys Val Thr
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 Val Thr Leu Asn Arg Arg Met Leu Ala Ser Gly Met Ala Tyr Ala Met
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 Asn Phe Ser Trp Ser Leu Asn Ala Glu Glu Ala Pro Glu Thr Thr Glu
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Val Thr Leu Ile Thr Ser Pro Phe Phe Phe Ser Tyr Ile Arg Glu Asp
340 345 350

Asp